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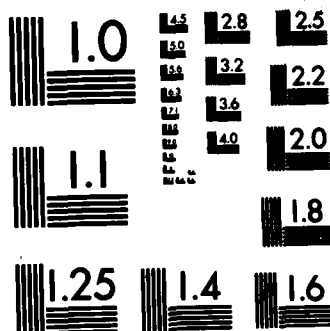
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AMRL-TR-75-50  
Volume 2



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# USAF BIOENVIRONMENTAL NOISE DATA HANDBOOK

Volume 2

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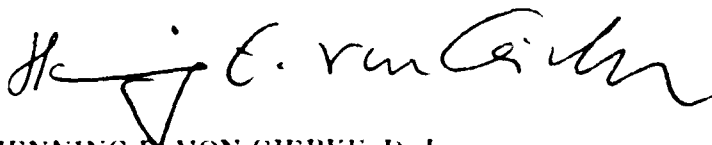
## TECHNICAL REVIEW AND APPROVAL

AMRL-TR-75-50, Vol. 2

This report has been reviewed by the Office of Public Affairs (PA) and is releasable to the National Technical Information Service (NTIS). At NTIS, it will be available to the general public, including foreign nations.

This technical report has been reviewed and is approved for publication.

**FOR THE COMMANDER**



HENNING E. VON GIERKE, Dr Ing  
Director  
Biodynamics and Bioengineering Division  
Air Force Aerospace Medical Research Laboratory

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report is an index which identifies the individual volumes published during the 1975-1982 period by the Air Force Aerospace Medical Research Laboratory (AFAMRL) as a multi-volume report, "USAF Bioenvironmental Noise Data Handbook," AMRL-TR-75-50 and lists those aircraft, ground equipment and other systems reported therein. Refer to Volume 1 of this handbook, "USAF Bioenvironmental Noise Data Handbook, Vol. 1: Organization, Content and Application," AMRL-TR-75-50(1) 1975, for discussion of the objective and design of		

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the handbook, the types of data presented, measurement procedures, instrumentation, data processing, definitions of quantities, symbols, equations, applications, limitations, etc.

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## PREFACE

This report was prepared by the Biodynamic Environment Branch, Air Force Aerospace Medical Research Laboratory, under Project/Task 723107, Technology to Define and Assess Environmental Quality of Noise From Air Force Operations.

The authors gratefully acknowledge the efforts of Mr. Henry Mohlman, University of Dayton Research Institute for his assistance in preparing this report.

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# **INDEX**

## **INTRODUCTION**

This index identifies the individual volumes published during the 1975-1982 period by the Air Force Aerospace Medical Research Laboratory (AFAMRL) as a multi-volume report, "USAF Bioenvironmental Noise Data Handbook," AMRL-TR-75-50 and lists those aircraft, ground equipment and other systems evaluated therein.

As of this date AFAMRL will no longer publish nor be responsible for any additional handbook volumes.

## **ORGANIZATION AND CONTENT**

Part A of this index is a numeric listing of volume numbers giving title, author(s), the Defense Technical Information Center (DTIC) AD number and publication date.

Part B provides an alpha-numeric listing of all systems (i.e., noise sources) included in the Handbook with corresponding volume numbers and identification of the type(s) of environmental noise data available on each system (e.g., in-flight, near-field, or far-field data). See the next section for descriptions of these items.

Part C is a similar alpha-numeric listing of systems but which are grouped within classes (e.g., Military Aircraft - Fighter, or Ground Support Equipment - Generator).

# HANDBOOK

## TYPES OF DATA INCLUDED

The Handbook includes data on several types of environmental noise:

### In-Flight Noise

Noise environments at flight crew and passenger locations on-board aircraft during some or all operations including engine start, taxi, takeoff, climb, cruise, approach and landing.

### Near-Field Noise

Noise environments produced close to the source at ground crew locations during ground operations of aircraft, and ground-based equipment/facilities. Such locations are in the acoustic near-field of the source where the source is spatially distributed and cannot be regarded as a point source.

### Far-Field Noise

Noise environments produced at moderate-to-large distances from the source, typically at locations adjacent to the flight line and in the surrounding community, during ground operations of aircraft and ground-based equipment/facilities. Such locations are in the acoustic far-field where the source may be regarded as a point source.

The Handbook provides measured and extrapolated data defining the bioacoustic environments in a wide variety of physical-acoustic and psychoacoustic measures:

- Overall and band sound pressure levels

- Overall and band acoustic power levels

- Directivity indices

- C-weighted and A-weighted overall sound levels

- Preferred speech interference level

- Perceived noise level

- Limiting times for total daily exposure of personnel with and without standard Air Force headgear/ear protectors

Refer to Volume 1 which discusses in detail the types of data available in the Handbook, definitions of quantities, symbols, methods for acquiring and analyzing data, equations, applications, limitations, etc. This information is not repeated in the other Handbook volumes.

## TYPES OF DATA NOT INCLUDED

The Handbook does not include data on the noise produced on the ground by aircraft during flight (e.g., takeoff, flyover, landing). For such information see references 1-6.

The Handbook also does not include data on noise environs produced by shop/industrial equipment, office equipment, computer facilities, building air conditioning/ventilating equipment, ground transportation, construction equipment, nor materials handling equipment.

Neither does the scope of the Handbook include impulse noise (e.g., blasts or sonic booms) nor does it provide architectural acoustics data.

## AVAILABILITY OF COPIES

Copies of all Handbook volumes may be purchased from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, Virginia 22151. Federal government agencies and their contractors registered with Defense Technical Information Center (DTIC) should direct requests for copies to: DTIC, Cameron Station, Alexandria, Virginia 22314. The AD number in Part A is the accession document number assigned by DTIC. Please do not request copies from AFAMRL.

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## REFERENCES

1. Speakman, J. D., Powell, R. G., and Cole, J. N. Community Noise Exposure Resulting From Aircraft Operations: Acoustic Data on Military Aircraft. AMRL-TR-73-110, Volume 1, AD A053699, Wright-Patterson AFB OH: AF Aerospace Medical Research Lab, November 1977.
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6. Speakman, J. D., Powell, R. G., and Lee, R. A. Community Noise Exposure Resulting From Aircraft Operations: Acoustic Data on Military Aircraft - Navy Aircraft. AMRL-TR-73-110, Volume 6, AD A056217, Wright-Patterson AFB OH: AF Aerospace Medical Research Lab, March 1978.

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112	HDU-13/M HEATER-EXPLOSION PROOF, DUCT TYPE PORTABLE	N.A. FARINACCI	AD A-048949	DEC 76
113	MK-1 TEST STAND, AIRCRAFT HYDRAULIC SYSTEM	N.A. FARINACCI	AD A-048950	DEC 76
114	MB-1 COMPRESSOR, RECIPROCATING, POWER DRIVEN	N.A. FARINACCI	AD A-048951	DEC 76
115	D-4 TEST STAND, AIRCRAFT HYDRAULIC SYSTEM	N.A. FARINACCI	AD A-048952	DEC 76
116	AF/M24T-2 TESTER, PRESSURIZED CABIN LEAKAGE, AIRCRAFT	N.A. FARINACCI	AD A-048953	DEC 76
117	F-16A IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-080642	JUL 79
118	MD-4 GENERATOR SET	R.W. GORMAN	AD A-053714	DEC 77
119	C-135B AIRCRAFT, NEAR AND FAR-FIELD NOISE	R.G. POWELL	AD A-087953	DEC 79
120	C-5A AIRCRAFT, NEAR AND FAR-FIELD NOISE	R.G. POWELL	AD A-079866	JUL 79
121	F-4C AIRCRAFT, NEAR AND FAR-FIELD NOISE	R.G. POWELL	AD A-079867	APR 79
122	F-16 AIRCRAFT, NEAR AND FAR-FIELD NOISE	R.G. POWELL	AD A-081844	AUG 79
123	F-100D AIRCRAFT, NEAR AND FAR-FIELD NOISE	R.G. POWELL	AD A-083934	AUG 79
124	F-104D AIRCRAFT, NEAR AND FAR-FIELD NOISE	R.G. POWELL	AD A-081845	AUG 79
125	F-105D AIRCRAFT, NEAR AND FAR-FIELD NOISE	R.G. POWELL	AD A-073616	OCT 78
126	C-141A IN-FLIGHT CREW/PASSENGER NOISE	H.K. HILLE	AD A-091585	JUN 80
127	F-15A IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-082652	AUG 79
128	T-38 AIRCRAFT IN THE AF32A-18 NOISE SUPPRESSOR,	R.A. LEE	AD A-079868	JUL 79
129	NEAR AND FAR-FIELD NOISE	R.A. LEE	AD A-073793	NOV 78
130	F-100 AIRCRAFT IN THE AF32A-16 NOISE SUPPRESSOR,	R.A. LEE	AD A-090618	JUL 80
	NEAR AND FAR-FIELD NOISE			
131	A-7 AIRCRAFT IN THE AF32A-19 AND THE AF32A-24 NOISE	R.A. LEE	AD A-079869	FEB 79
	SUPPRESSORS, NEAR AND FAR-FIELD NOISE			
132	F-4 AIRCRAFT IN THE AF32A-14 NOISE SUPPRESSOR,	R.A. LEE	AD A-079870	MAR 79
	NEAR AND FAR-FIELD NOISE			
133	F-5 AIRCRAFT IN THE AF32A-18 NOISE SUPPRESSOR,	R.A. LEE	AD A-079871	JUL 79
	NEAR AND FAR-FIELD NOISE			
134	F-15 AIRCRAFT IN THE AF32A-23 NOISE SUPPRESSOR,	R.A. LEE	AD A-079872	MAR 79
	NEAR AND FAR-FIELD NOISE			
135	KC-135A AIRCRAFT IN THE MODIFIED AF32A-32A NOISE SUPPRESSOR,	R.A. LEE	AD A-079873	NOV 78
	FAR-FIELD NOISE			
	F-106 AIRCRAFT IN THE AF32A-17 NOISE SUPPRESSOR,			
	NEAR AND FAR-FIELD NOISE			

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VOLUME NUMBER	VOLUME TITLE	AUTHOR(S)	AD NUMBER	PUBLICATION DATE
136	F-111A AIRCRAFT IN THE AF32A-13 NOISE SUPPRESSOR, FAR-FIELD NOISE	R.A. LEE	AD A-079874	MAR 79
137	F-101B AIRCRAFT, NEAR AND FAR-FIELD NOISE	R.G. POWELL	AD A-073617	OCT 78
138	F-102A AIRCRAFT, NEAR AND FAR-FIELD NOISE	R.G. POWELL	AD A-073618	OCT 78
139	E-3A AIRCRAFT, NEAR AND FAR-FIELD NOISE	R.G. POWELL	AD A-082653	AUG 79
140	F-16 AIRCRAFT IN THE AF32A-25 NOISE SUPPRESSOR, NEAR AND FAR-FIELD NOISE	R.A. LEE	AD A-079875	AUG 79
141	F/A-18 AIRCRAFT, FAR-FIELD NOISE	R.G. POWELL	AD A-082654	JUL 79
142	F-101B IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-080910	AUG 79
143	F-103D IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-080925	AUG 79
144	F-106A IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-081846	JUL 79
145	F-106B IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-081847	JUL 79
146	F-16B IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-081848	AUG 79
147*	T-37B IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-114943	NOV 81
148	C-9A IN-FLIGHT CREW/PASSENGER NOISE	T.H. RAU	AD A-116145	MAY 82
149	C-140 IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-120508	SEP 82
150				
151*	C-12A IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-120509	SEP 82
152	E-4B IN-FLIGHT CREW/PASSENGER NOISE	T.H. RAU	AD A-116146	MAY 82
153*	CH-3 IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-120791	SEP 82
154				
155	HH-1N IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-122601	NOV 82
156	KC-10A IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-120507	SEP 82
157	F-106A AIRCRAFT, NEAR AND FAR-FIELD NOISE	T.H. RAU	AD A-116930	MAY 82
158				
159*	KC-10A AIRCRAFT, NEAR AND FAR-FIELD NOISE	R.G. POWELL	AD A-121301	SEP 82
160				
161	A/M32A-86 GENERATOR SET, DIESEL ENGINE DRIVEN	T.H. RAU	AD A-116147	MAY 82
162	MD-4MO GENERATOR SET	T.H. RAU	AD A-116148	MAY 82
163	GPC-28 COMPRESSOR	T.H. RAU	AD A-116149	MAY 82
164	MD-1 HEATER, DUCT TYPE, PORTABLE	T.H. RAU	AD A-116150	MAY 82
165	MC-1 HEATER, DUCT TYPE, PORTABLE	T.H. RAU	AD A-116151	JUN 82
166	AF/M32T-1 TESTER, PRESSURIZED CABIN LEAKAGE, AIRCRAFT	T.H. RAU	AD A-117950	JUL 82
167	MA-3M AIR CONDITIONER	T.H. RAU	AD A-116152	JUN 82
168	MB-3 TESTER, PRESSURIZED CABIN LEAKAGE, AIRCRAFT	T.H. RAU	AD A-116153	JUN 82
169*				
170*				

\*WILL NOT BE PUBLISHED



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AUTHOR(S)

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NUMBER

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DATE

171\*  
172

MUSH-HOUSE NOISE SUPPRESSOR (AERO SYSTEMS ENGINEERING INC.)  
FAR-FIELD NOISE

R.A. LEE, T.H. RAU  
C. JONES

AD A-118773

JUL 82

\*WILL NOT BE PUBLISHED

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SYSTEM	VOLUME NUMBER		SYSTEM	VOLUME NUMBER	
	IN-FLIGHT	NEAR-FIELD		IN-FLIGHT	NEAR-FIELD
A-1 GENERATOR SET		3	C-131B AIRCRAFT	33	87
A-1E AIRCRAFT	52	77	C-131D/E AIRCRAFT		87+
A-6A AIRCRAFT		94	C-135A AIRCRAFT		83+
A-7 NOISE SUPPRESSORS		130	C-135B AIRCRAFT		119
A-7D AIRCRAFT	41	80	C-140 AIRCRAFT	150	
A-7E AIRCRAFT		96	C-141A AIRCRAFT	126	75
AU-8A AIRCRAFT		95	CH-3 AIRCRAFT	155	
A-10A AIRCRAFT	102	72	D-4 TEST STAND		115
A-37A AIRCRAFT		70+	D-5 HYDRAULIC TEST STAND		27
A-37B AIRCRAFT		70	DC-130E AIRCRAFT		86+
AC-119G AIRCRAFT	53		E-3A AIRCRAFT		139
AC-119K AIRCRAFT		99+	E-4B AIRCRAFT	154	
AC-130A AIRCRAFT	55	86+	EB-57B/E AIRCRAFT		68+
AC-130E AIRCRAFT		116	EC-121D/Q/S/T AIRCRAFT		100+
AF/M24T-2 CABIN TESTER		166	EC-135A/G/H/K/L/N/P ACRFT		89+
AF/M32T-1 CABIN TESTER		18	EC-135C/J AIRCRAFT		119+
A/E24U-8 POWER PLANT		110	EC-135H AIRCRAFT	42	
A/M27T-2 TEST STAND		6	EF-111A AIRCRAFT		81+
A/M32A-60 GENERATOR SET		104	EMU-10/U GENERATOR SET		24
A/M32A-60A GENERATOR SET		105	F-4 NOISE SUPPRESSOR	131	131
A/M32A-60A GENERATOR SET		151	F-4C AIRCRAFT		121
A/M32C-4 AIR CONDITIONER		108	F-4D AIRCRAFT	37	
B-52F AIRCRAFT		64+	F-4D/E AIRCRAFT		121+
B-52G AIRCRAFT		64	F-5 NOISE SUPPRESSOR		132
B-52H AIRCRAFT	31	82	F-5E AIRCRAFT	103	69
B-57B/C/E AIRCRAFT		68+	F-14A AIRCRAFT		92
B-57G AIRCRAFT		68	F-15 NOISE SUPPRESSOR		133
C-5A AIRCRAFT	62	120	F-15A AIRCRAFT	127	63
C-7A AIRCRAFT		84	F-16 AIRCRAFT		122
C-9A AIRCRAFT	149		F-16 NOISE SUPPRESSOR		140
C-12A AIRCRAFT	152	8	F-16A AIRCRAFT	117	
C-26-M GENERATOR SET		99+	F-16B AIRCRAFT	146	
C-97E/G/K AIRCRAFT		101+	F/A-18 AIRCRAFT		141
C-119G/J AIRCRAFT		99	F-100 NOISE SUPPRESSOR		129
C-119L AIRCRAFT		99	F-100C/F AIRCRAFT		123+
C-121G AIRCRAFT		100	F-100D AIRCRAFT		123
C-123K AIRCRAFT	54	78	F-100F AIRCRAFT	43	
C-130A/B/D AIRCRAFT		86+	F-101B AIRCRAFT	142	
C-130E AIRCRAFT	38	86	F-101F AIRCRAFT		137+
			F-102A AIRCRAFT		138

+ DATA FOR THIS TYPE/MODEL AIRCRAFT WERE NOT MEASURED BUT CAN BE OBTAINED FROM THE HANDBOOK VOLUMES INDICATED FOR SIMILAR AIRCRAFT WHICH ARE EQUIVALENT NOISE-WISE.

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SYSTEM	VOLUME NUMBER		SYSTEM	VOLUME NUMBER	
	IN-FLIGHT	NEAR-FIELD		IN-FLIGHT	NEAR-FIELD
F-104A/C/G AIRCRAFT		124+	MC-1A COMPRESSOR		28
F-104D AIRCRAFT	44	124	MC-1A MOTOR GENERATOR		111
F-105B/F/G AIRCRAFT		125+	MC-1M COMPRESSOR		9
F-105D AIRCRAFT	143	125	MC-2A COMPRESSOR		11
F-106 NOISE SUPPRESSOR		135	MC-11 COMPRESSOR		10
F-106A AIRCRAFT	144	158	MD-1 HEATER		164
F-106B AIRCRAFT	145	67	MD-3 GENERATOR SET		7
FB-111A AIRCRAFT		81	MD-3A GENERATOR SET		30
F-111A AIRCRAFT		81+	MD-3M GENERATOR SET		14
F-111A(TF30-P-3)/C/D/E		81+	MD-4 GENERATOR SET		118
F-111A NOISE SUPPRESSOR		136	MD-4MO GENERATOR SET		162
F-111E AIRCRAFT	45	71	MJ-1 HYDRAULIC TEST STAND		15
F-111F AIRCRAFT		163	MJ-1 TRUCK, BOMB SERVICE		29
GPC-28 COMPRESSOR		19	MJ-2A HYD. TEST STAND		20
H-1 HEATER		19	MJ-3 HYDRAULIC TEST STAND		12
MC-130N AIRCRAFT	56	112	MJ-4 TRUCK, BOMB SERVICE		29
MDU-13/M HEATER		112	MK-1 TEST STAND		113
HH-1N AIRCRAFT	156	61	MK-3A TEST STAND		109
HH-3E AIRCRAFT	50	50	NF-2 FLOODLIGHT SET	46	16
HH-43B AIRCRAFT			O-2A AIRCRAFT		76
HH-53C AIRCRAFT	51		O-2B AIRCRAFT	47	76+
HUSH-HOUSE SUPPRESSOR		160	OU-10A AIRCRAFT	40	85
KC-10A AIRCRAFT	157	160	P-3A AIRCRAFT		91
KC-97L AIRCRAFT		101	PU286 GENERATOR SET	22	22
KC-135A AIRCRAFT	32	83	QU-22B AIRCRAFT	59	
KC-135A NOISE SUPPRESSOR		134	RA-5C AIRCRAFT		93
KC-135Q/R AIRCRAFT		83+	RB-57E AIRCRAFT		68+
MA-1 HYDRAULIC JACK		13	RC-135A/D/T AIRCRAFT		83+
MA-1A AIR CONDITIONER		106	RC-135C/M/S/U/V AIRCRAFT		119+
MA-1A POWER UNIT (AIRSEARCH)		4	RF-4C AIRCRAFT		121+
MA-1A POWER UNIT (CONTINENTAL)		5	RF-101B AIRCRAFT		137+
MA-3 AIR CONDITIONER		26	S-3A AIRCRAFT		90
MA-3M AIR CONDITIONER		167	T-2C AIRCRAFT		89
MA-7 AIR CONDITIONER		25	T-28B AIRCRAFT	79+	79+
MA-8 AIR CONDITIONER		107	T-28D AIRCRAFT	79	79
MB-1 CABIN PRESS. TESTER		21	T-28D-5 AIRCRAFT	57	
MB-1 COMPRESSOR		114	T-33A AIRCRAFT	48	88
MB-3 CABIN TESTER		168	T-37B AIRCRAFT	148	65
MC-1 COMPRESSOR		17	T-38 NOISE SUPPRESSOR		128
MC-1 HEATER		165	T-38A AIRCRAFT	36	74

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SYSTEM	VOLUME NUMBER		SYSTEM	VOLUME NUMBER		IN-FLIGHT	NEAR-FIELD	FAR-FIELD	IN-FLIGHT	NEAR-FIELD	FAR-FIELD
	IN-FLIGHT	NEAR-FIELD		IN-FLIGHT	NEAR-FIELD						
T-39A AIRCRAFT		97			97			97			
T-39B AIRCRAFT	35	97+			97+			97+			
T-43A AIRCRAFT	49	73			73			73			
TF-104G AIRCRAFT		124+			124+			124+			
UH-1F AIRCRAFT	39										
UH-1N AIRCRAFT											
U-4B AIRCRAFT	60										
U-10B AIRCRAFT		66			66			66			
UC-123K AIRCRAFT	58										
UC-118A AIRCRAFT	34	78+			78+			78+			
UC-121C AIRCRAFT		100+			100+			100+			
UC-123K AIRCRAFT		78+			78+			78+			
UC-131D AIRCRAFT		87+			87+			87+			
UC-135B AIRCRAFT		119+			119+			119+			
WB-57C AIRCRAFT		68+			68+			68+			
WC-130B/E AIRCRAFT		86+			86+			86+			
WC-135B AIRCRAFT		119+			119+			119+			

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SYSTEM	VOLUME NUMBER			SYSTEM	VOLUME NUMBER		
	IN-FLIGHT	NEAR-FIELD	FAR-FIELD		IN-FLIGHT	NEAR-FIELD	FAR-FIELD
MILITARY AIRCRAFT - ATTACK				MILITARY AIRCRAFT - FIGHTER			
A-1E AIRCRAFT	52	77	77	EF-111A AIRCRAFT		81+	81+
A-6A AIRCRAFT			94	F-4C AIRCRAFT		121	121
A-7D AIRCRAFT	41	80	80	F-4D AIRCRAFT	37		
A-7E AIRCRAFT			96	F-4D/E AIRCRAFT		121+	121+
AU-8A AIRCRAFT			95	F-5E AIRCRAFT	103	69	69
A-10A AIRCRAFT	102	72	72	F-14A AIRCRAFT	127	63	92
A-37A AIRCRAFT		70+	70+	F-15A AIRCRAFT		122	122
A-37B AIRCRAFT		70	70	F-16 AIRCRAFT	117		
RA-5C AIRCRAFT			93	F-16A AIRCRAFT	146		
				F-16B AIRCRAFT			
MILITARY AIRCRAFT - Bomber				F/A-18 AIRCRAFT			141
B-52F AIRCRAFT		64+	64+	F-100C/F AIRCRAFT		123+	123+
B-52G AIRCRAFT		64	64	F-100D AIRCRAFT		123	123
B-52H AIRCRAFT	31	82	82	F-100F AIRCRAFT	43		
B-57B/C/E AIRCRAFT		68+	68+	F-101B AIRCRAFT	142	137	137
B-57G AIRCRAFT		68	68	F-101F AIRCRAFT		137+	137+
EB-57B/E AIRCRAFT		68+	68+	F-102A AIRCRAFT		138	138
FB-111A AIRCRAFT		67	67	F-102A/C/G AIRCRAFT		124+	124+
RB-57C AIRCRAFT		68+	68+	F-104A/C/G AIRCRAFT	44	124	124
MB-57C AIRCRAFT		68+	68+	F-104D AIRCRAFT		125+	125+
				F-105B/F/G AIRCRAFT	143	125	125
				F-105D AIRCRAFT	144	158	158
				F-106A AIRCRAFT	145		
				F-106B AIRCRAFT		81	81
				F-111A AIRCRAFT		81+	81+
				F-111A(TF30-P-3)/C/D/E			
				F-111E AIRCRAFT	45		
				F-111F AIRCRAFT		71	71
				RF-4C AIRCRAFT		121+	121+
				RF-101B AIRCRAFT		137+	137+
				TF-104G AIRCRAFT		124+	124+
				MILITARY AIRCRAFT - OBSERVATION			
				O-2A AIRCRAFT	46		76
				O-2B AIRCRAFT	47		76+
				OU-10A AIRCRAFT	40	85	85

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SYSTEM	IN-FLIGHT	VOLUME NUMBER		IN-FLIGHT	VOLUME NUMBER		SYSTEM	IN-FLIGHT	VOLUME NUMBER		IN-FLIGHT	VOLUME NUMBER		SYSTEM	IN-FLIGHT	VOLUME NUMBER		SYSTEM	IN-FLIGHT	VOLUME NUMBER		SYSTEM	IN-FLIGHT	VOLUME NUMBER	
		NEAR-FIELD	FAR-FIELD		NEAR-FIELD	FAR-FIELD			NEAR-FIELD	FAR-FIELD		NEAR-FIELD	FAR-FIELD			NEAR-FIELD	FAR-FIELD			NEAR-FIELD	FAR-FIELD			NEAR-FIELD	FAR-FIELD
MILITARY AIRCRAFT - CARGO/TRANSPORT																									
AC-119G AIRCRAFT	53																								
AC-119K AIRCRAFT		99+	99+																						
AC-130A AIRCRAFT	55																								
AC-130E AIRCRAFT	62																								
C-5A AIRCRAFT		120	120																						
C-7A AIRCRAFT		84	84																						
C-9A AIRCRAFT	149																								
C-12A AIRCRAFT	152																								
C-97E/G/K AIRCRAFT		99+	101+																						
C-119G/J AIRCRAFT		99	99																						
C-119L AIRCRAFT		100	100																						
C-121G AIRCRAFT		78	78																						
C-123K AIRCRAFT	54																								
C-130A/B/D AIRCRAFT		86+	86+																						
C-130E AIRCRAFT	38																								
C-131B AIRCRAFT	33																								
C-131D/E AIRCRAFT		87+	87+																						
C-135A AIRCRAFT		83+	83+																						
C-135B AIRCRAFT		119	119																						
C-140 AIRCRAFT	150																								
C-141A AIRCRAFT	126																								
DC-130E AIRCRAFT		75	75																						
EC-121D/Q/S/T AIRCRAFT		86+	86+																						
EC-135A/G/H/K/L/N/P ACFT		100+	100+																						
EC-135C/J AIRCRAFT		83+	83+																						
EC-135H AIRCRAFT		119+	119+																						
EC-135M AIRCRAFT	42																								
MC-130N AIRCRAFT	56																								
KC-10A AIRCRAFT	157																								
KC-97L AIRCRAFT		160	160																						
KC-135A AIRCRAFT		83	83																						
KC-135B AIRCRAFT	32																								
KC-135C/D/T AIRCRAFT		83+	83+																						
KC-135C/M/S/U/V AIRCRAFT		119+	119+																						
UC-123K AIRCRAFT		78+	78+																						
UC-118A AIRCRAFT	34																								
UC-121C AIRCRAFT		100+	100+																						
UC-123K AIRCRAFT		78+	78+																						
UC-131D AIRCRAFT		87+	87+																						
UC-135B AIRCRAFT		119+	119+																						
WC-130B/E AIRCRAFT		86+	86+																						
WC-135E AIRCRAFT		119+	119+																						
MILITARY AIRCRAFT - TRAINING																									
T-2C AIRCRAFT																									
T-28B AIRCRAFT		79+	79+																						
T-28D AIRCRAFT		79	79																						
T-28D-5 AIRCRAFT		57	57																						
T-33A AIRCRAFT		48	48																						
T-37B AIRCRAFT		148	148																						
T-38A AIRCRAFT		36	36																						
T-39A AIRCRAFT		97	97																						
T-39B AIRCRAFT		35	35																						
T-43A AIRCRAFT		49	49																						
MILITARY AIRCRAFT - UTILITY																									
QU-22B AIRCRAFT		59	59																						
U-4B AIRCRAFT		66	66																						
U-10B AIRCRAFT		58	58																						
MILITARY AIRCRAFT - HELICOPTER																									
CH-3 AIRCRAFT		155	155																						
HH-1N AIRCRAFT		156	156																						
HH-3E AIRCRAFT		61	61																						
HH-43B AIRCRAFT		50	50																						
HH-53C AIRCRAFT		51	51																						
UH-1F AIRCRAFT		39	39																						
UH-1N AIRCRAFT		60	60																						
MILITARY AIRCRAFT - OTHER																									
E-3A AIRCRAFT		139	139																						
E-4B AIRCRAFT		154	154																						
P-3A AIRCRAFT		91	91																						
S-3A AIRCRAFT		90	90																						
GROUND SUPPORT EQUIPMENT - AIR CONDITIONER																									
A/M32C-4 AIR CONDITIONER		108	108																						
MA-1A AIR CONDITIONER		106	106																						
MA-3 AIR CONDITIONER		26	26																						
MA-3M AIR CONDITIONER		167	167																						
MA-7 AIR CONDITIONER		25	25																						
MA-8 AIR CONDITIONER		107	107																						

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